

OET-69 Interference Analysis to W40BY, WWME-LD (Ch. 39, 15 kW) (worst-case scenarios)

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-20-2009

Record Selected for Analysis

WWMELD USERRECORD-01 CHICAGO IL US
Channel 39 ERP 15. kW HAAT 443. m RCAMSL 00623 m FULL SERVICE MASK
Latitude 041-52-44 Longitude 0087-38-10
Status APP Zone 1 Border
Dir Antenna Make CDB Model 00000000089107 Beam tilt N Ref Azimuth 260.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	7.018	445.6	58.0
45.0	0.853	447.0	45.2
90.0	0.773	447.0	44.6
135.0	3.004	447.0	52.8
180.0	11.432	442.3	60.8
225.0	13.824	440.5	61.9
270.0	12.367	437.4	61.1
315.0	14.702	438.5	62.2

Contour Overlap to Proposed Station

Station
W40BY 40 PALATINE IL BLTT20060419ACR

Station inside contour of Digital LPTV station
WWMELD 39 CHICAGO IL USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 369.7km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
39	WWMELD	CHICAGO IL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WPVN-CA	AURORA IL	74.2	CP	BPTTA	-20090817ABN
24	WPVN-CA	AURORA IL	74.2	LIC	BLTTL	-19990716JA
24	WHVI-LP	VALPARAISO IN	64.4	LIC	BLTTL	-19921102JE

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24	WMLW-CA	MILWAUKEE WI	139.1	CP	BDISTTA	-20081230ACP
25	W25DW	ARBURY HILLS IL	1.4	LIC	BLTTL	-20080609ABO
25	WMKB-LP	ROCHELLE IL	130.2	APP	BSTA	-20070627ABX
25	WMKB-LP	ROCHELLE IL	130.2	LIC	BLTTL	-20070813AFM
25	W25CL	ROCKFORD IL	125.9	LIC	BLTT	-20020307ABP
25	WCWW-LP	SOUTH BEND IN	123.8	LIC	BLTTL	-20021010AAP
38	WGBO-DT	JOLIET IL	2.5	CP MOD	BMPCDT	-20080618AEI
38	W25CL	ROCKFORD IL	125.9	CP	BDISDTT	-20060330ABA
38	WMKG-CA	MUSKEGON MI	195.0	LIC	BLTTL	-20040824AAW
38	W38CT	MADISON WI	199.6	LIC	BLTT	-20021203ACA
38	WBWT-LP	MILWAUKEE WI	137.1	LIC	BLTTL	-20070223AGI
39	W39BH	CHAMPAIGN IL	203.0	LIC	BLTTL	-19920420IM
39	NEW	CHANA IL	130.2	APP	BNPDTL	-20090825BOS
39	WAOE	PEORIA IL	211.7	CP	BPCDT	-20080620AFR
39	NEW	FORT WAYNE IN	234.4	APP	BNPDTL	-20090825BSA
39	NEW	MONTICELLO IN	143.4	APP	BNPDTL	-20090825ADJ
39	WKOI-TV	RICHMOND IN	364.8	LIC	BLCDT	-20050920ABV
39	WKOI-TV	RICHMOND IN	364.8	CP	BPCDT	-20080618ATM
39	WFXW	TERRE HAUTE IN	293.8	CP MOD	BMPCDT	-20070125ACT
39	WADL	MOUNT CLEMENS MI	398.0	LIC	BLCDT	-20020507AAO
39	NEW	TRAVERSE CITY MI	357.1	APP	BNPDTT	-20090825BUC
39	WOCB-CD	MARION OH	402.0	LIC	BLDTA	-20090505AAK
39	WOCB-CD	MARION OH	401.7	LIC	BLTTA	-20031212AAO
39	WFRV-TV	GREEN BAY WI	274.3	LIC	BLCDT	-20051004ABD
40	W40BY	PALATINE IL	0.0	LIC	BLTT	-20060419ACR
40	W40CN	SUGAR GROVE IL	68.7	CP	BPTTL	-20041202ACN
40	W40CN	SUGAR GROVE IL	68.7	CP	BPTTL	-20070301ABR
40	WHCH-LD	CHESTERTON IN	64.4	LIC	BLDTL	-20070822AAF
40	WPXE-TV	KENOSHA WI	137.0	LIC	BLCDT	-20040206AAT
41	WOCH-CA	CHICAGO IL	2.5	APP	BSTA	-20060109ACO
41	WOCH-CA	CHICAGO IL	2.5	LIC	BLTTA	-20060103ACT
41	WOCH-CA	CHICAGO IL	2.5	APP	BPTTA	-20050127ALO
41	WMLW-CA	MILWAUKEE WI	139.1	STA	BSTA	-20000714AAU
41	WMLW-CA	MILWAUKEE WI	139.1	LIC	BLTTA	-20021002AAA
42	W64CQ	ARLINGTON HEIGHTS IL	40.5	CP	BDISTT	-20070709ACL
42	W64CQ	ARLINGTON HEIGHTS IL	40.5	APP	BPTT	-20030723ACP
43	WAJN-LP	BROOKSTON IN	134.0	LIC	BLTTL	-20050422AEH
46	WBKM-LP	CHANA IL	130.2	LIC	BLTTL	-20050228ACV
47	WTAS-LP	WAUKESHA WI	129.3	LIC	BLTTL	-20071001ACM

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Analysis of Interference to Affected Station 28

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	W40BY	PALATINE IL	BLTT	-20060419ACR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	WITI	MILWAUKEE WI	136.4	CP MOD	BMPCDT	-20081204ADM
33	WITI	MILWAUKEE WI	136.3	PLN	DTVPLN	-DTVP1234
36	WJYS	HAMMOND IN	0.0	LIC	BLCDT	-20020801ABI
36	WJYS	HAMMOND IN	0.0	PLN	DTVPLN	-DTVP1323
36	WJYS	HAMMOND IN	0.0	CP	BPCDT	-20080619AIZ
38	WGBO-DT	JOLIET IL	2.5	CP MOD	BMPCDT	-20080618AEI
38	WGBO-TV	JOLIET IL	2.5	PLN	DTVPLN	-DTVP1360
39	NEW	CHANA IL	130.3	APP	BNPDTL	-20090825BOS
39	WWME-LD	CHICAGO IL	0.0	LIC	BLDTL	-20090105ACU
39	NEW	MONTICELLO IN	143.4	APP	BNPDTL	-20090825ADJ
40	NEW	JACKSONVILLE IL	322.3	APP	BNPDTT	-20090825BYB
40	W40CN	SUGAR GROVE IL	68.8	CP	BPTTL	-20070301ABR
40	WHCH-LD	CHESTERTON IN	64.3	LIC	BLDTL	-20070822AAF
40	WFWA	FORT WAYNE IN	221.0	APP	BPEDT	-20080617ADU
40	WFWA	FORT WAYNE IN	221.0	PLN	DTVPLN	-DTVP1431
40	WFWA	FORT WAYNE IN	221.0	LIC	BLEDT	-20041112ACP
40	WHAN-LD	SALEM IN	387.4	CP	BDCCDTL	-20061003AAP
40	NEW	CADILLAC MI	312.6	APP	BNPDTL	-20090825AAE
40	WLPC-LD	DETROIT MI	381.8	CP	BDCCDTL	-20061027ACH
40	WKAR-TV	EAST LANSING MI	280.3	CP MOD	BMPCDT	-20080620AIJ
40	WKAR-TV	EAST LANSING MI	280.2	PLN	DTVPLN	-DTVP1436
40	WWTV	TRAVERSE CITY MI	357.1	APP	BDRTCDT	-20090824AEH
40	WRCX-LP	DAYTON OH	371.8	CP	BDFCDTL	-20090507ABE
40	WPXE-TV	KENOSHA WI	137.0	LIC	BLCDT	-20040206AAT
40	WPXE	KENOSHA WI	137.0	PLN	DTVPLN	-DTVP1454
41	WOCH-CA	CHICAGO IL	2.5	APP	BSTA	-20060109ACO
41	WOCH-CA	CHICAGO IL	2.5	LIC	BLTTA	-20060103ACT
41	WOCH-CA	CHICAGO IL	2.5	APP	BPTTA	-20050127ALO
41	WOLP-LD	GRAND RAPIDS MI	196.5	CP	BDCCDTL	-20061020ACU
42	WQRF-TV	ROCKFORD IL	134.5	CP MOD	BMPCDT	-20070207ABW
42	WQRF-TV	ROCKFORD IL	134.1	PLN	DTVPLN	-DTVP1497

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42	WNDU-TV	SOUTH BEND IN	121.8	CP	BPCDT	-20080619AAB
42	WNDU-TV	SOUTH BEND IN	121.8	PLN	DTVPLN	-DTVP1500
42	WNDU-TV	SOUTH BEND IN	121.9	LIC	BLCDT	-20060717AAG
43	WCPX-TV	CHICAGO IL	1.9	APP	BPCDT	-20080619AIL
43	WCPX	CHICAGO IL	0.0	PLN	DTVPLN	-DTVP1535
43	WCPX-TV	CHICAGO IL	0.0	LIC	BLCDT	-20010226ABH
44	WLS-TV	CHICAGO IL	0.0	APP	BPCDT	-20091001ACI
44	WLS-TV	CHICAGO IL	0.0	PLN	DTVPLN	-DTVP1570
44	WLS-DR	CHICAGO IL	0.0	APP	BPRM	-20090724AEG
47	WTTW	CHICAGO IL	0.0	PLN	DTVPLN	-DTVP1671
47	WTTW	CHICAGO IL	0.0	LIC	BLEDT	-20020408ABK
48	WHME-TV	SOUTH BEND IN	126.3	APP	BPCDT	-20080619ABC
48	WBME-TV	RACINE WI	109.8	LIC	BMLCDT	-20070823AED
48	WBME-TV	RACINE WI	136.1	PLN	DTVPLN	-DTVP1725
48	WBME-TV	RACINE WI	139.1	CP MOD	BMPCDT	-20090709ABY
39	WWME-LD	CHICAGO IL	0.0	APP	USERRECORD-01	

Total scenarios = 216

Result key: 1
 Scenario 1 Affected station 28 W40BY
 Before Analysis

	BLTT	20060419ACR	LIC
Results for: 40N IL PALATINE	POPULATION	AREA (sq km)	
within Noise Limited Contour	2719794	1191.8	
not affected by terrain losses	2719794	1191.8	
lost to NTSC IX	356562	153.6	
lost to additional IX by ATV	110884	37.2	
lost to all IX	467446	190.8	

Potential Interfering Stations Included in above Scenario 1

40N IL SUGAR GROVE	BPTTL	20070301ABR	CP
41N IL CHICAGO	BLTTA	20060103ACT	LIC
36A IN HAMMOND	BLCDT	20020801ABI	LIC
38A IL JOLIET	BMPCDT	20080618AEI	CP
40A WI KENOSHA	BLCDT	20040206AAT	LIC
43A IL CHICAGO	DTVPLN	DTVP1535	PLN
44A IL CHICAGO	DTVPLN	DTVP1570	PLN
47A IL CHICAGO	DTVPLN	DTVP1671	PLN

After Analysis

	BLTT	20060419ACR	LIC
Results for: 40N IL PALATINE	POPULATION	AREA (sq km)	
within Noise Limited Contour	2719794	1191.8	
not affected by terrain losses	2719794	1191.8	
lost to NTSC IX	356562	153.6	
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41N IL CHICAGO	BLTTA	20060103ACT	LIC
36A IN HAMMOND	BLCDT	20020801ABI	LIC
38A IL JOLIET	BMPCDT	20080618AEI	CP
40A WI KENOSHA	BLCDT	20040206AAT	LIC
43A IL CHICAGO	DTVPLN	DTVP1535	PLN
44A IL CHICAGO	DTVPLN	DTVP1570	PLN
47A IL CHICAGO	DTVPLN	DTVP1671	PLN
39A IL CHICAGO	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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